NETGEAR®

CardBus Notebook Adapter

10/100 Mbps Fast Ethernet **FA511**

Installation Guide

NETGEAR, Inc.

Support Information
Phone: 1-888-NETGEAR
E-mail: support@NETGEAR.com
www.NETGEAR.com

See Support Information Card for additional phone numbers.

Internet / World Wide Web

Go to http://www.NETGEAR.com for the NETGEAR Web page.
Defective or damaged merchandise can be returned to your point-of-sale representative.

IMPORTANT!

Please register online. YOU MUST REGISTER TO OBTAIN TECHNICAL SUPPORT. PLEASE RETAIN PROOF OF PURCHASE and this warranty information. To register your product, get product support, or to obtain product information and NETGEAR product documentation, direct your Web browser to the **http://www.NETGEAR.com** Web page.

July 2002

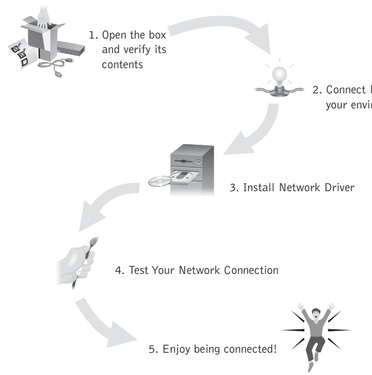
M-FA511NA-Z

Introduction

NETGEAR's Model FA511 CardBus Notebook Adapter makes it easy to accelerate your notebook PC to Fast Ethernet speeds. It is 32-bit CardBus compatible and, with its auto-sensing technology and Ethernet/Fast Ethernet compatibility, ideal for migrating a 32-bit PC card notebook computer from 10 Mbps to 100 Mbps networks.

START HERE

Instructions in this guide are for users of Microsoft Windows Operating Systems.


1. Open the box and verify its contents
2. Connect NETGEAR to your environment
3. Install Network Driver
4. Test Your Network Connection
5. Enjoy being connected!

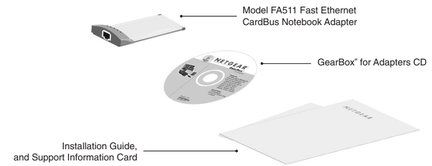
As a last step, be sure to register your network card at http://www.NETGEAR.com.

Plan Your Time

Estimated setup time for this product is only **00:05** minutes.

1 OPEN BOX AND VERIFY CONTENTS

Make sure that your package contains the following:


Model FA511 Fast Ethernet CardBus Notebook Adapter
GearBox™ for Adapters CD
Installation Guide, and Support Information Card

2 CONNECT NETGEAR TO YOUR ENVIRONMENT

You will need to have your Microsoft Windows Operating System CD-ROM (or Microsoft Windows Operating System floppy disks) available to complete the installation.

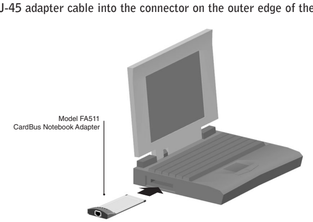
Install the Network Card

The FA511 CardBus Notebook Adapter is hot swappable, which means you can insert it into a PC that is either powered on or shut down.

1. Insert the FA511 CardBus Notebook Adapter into the CardBus slot as illustrated below.

   Some PCs have two PCMCIA or CardBus slots; the FA511 CardBus Notebook Adapter can only be inserted into cardBus slot.

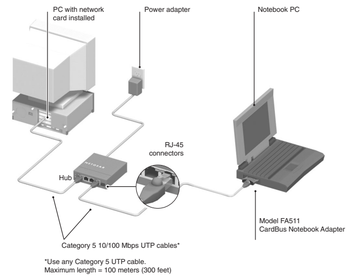
2. Insert the RJ-45 adapter cable into the connector on the outer edge of the network card.



Connect the Network Cables

Using a UTP cable, connect any port on a hub or switch to the port on the network card.

Note: One of the ports on NETGEAR hubs is switchable between Normal (MDI-X) and Uplink (MDI) with a Normal/Uplink push button. If you are using this switchable port on a NETGEAR hub to connect to a PC or the network card, make sure the Normal/Uplink push button is set to Normal.


PC with network card installed
Power adapter
Notebook PC
RJ-45 connectors
Hub
Model FA511 CardBus Notebook Adapter
Category 5 10/100 Mbps UTP cables*
*Use any Category 5 UTP cable. Maximum length = 100 meters (300 feet)

3 INSTALL THE NETWORK DRIVER

This section explains how to install the Network Driver in various Microsoft Windows Operating Systems. Some versions of Microsoft Windows Operating System may respond with different dialog boxes, or the dialog boxes may open in a different sequence than those shown in this guide, but should prompt you for the same information.

Note: You must install the network card before installing the network driver. If you have chosen to install the card with the PC turned off, turn the power ON now.

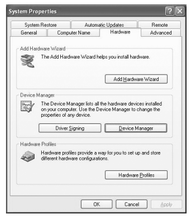
Before you proceed with the installation steps, decide on a name for your network and for each PC. The whole network must have the same workgroup name while each PC must have a unique name. These names can be entered by going to Start>Settings>Control Panel>Network and clicking on the Identification tab. You also need to have the Microsoft Windows Operating System CD-ROM and the GearBox™ for Adapters CD ready to use in the installation process.

Please refer to README file in GearBox™ for Adapters CD and NETGEAR support website for latest FAQ and trouble-shooting information.

Install the Windows XP Network Driver

Note: If the "Insert Disk" window opens and a message prompts you to insert your Windows CD-ROM at any time during the installation process, insert the Windows CD-ROM in Drive D (the CD-ROM drive) and click on "OK". Then follow the next step in the instructions.

1. After installing the FA511 CardBus Notebook Adapter, Window XP will automatically install the build-in driver. The following steps are for updated driver in GearBox™ for Adapters CD.
2. Double-click "My Computer" on the desktop, double-click "Control panel" and then double-click "System".
3. Click "Hardware" and click "Device Manager" tab, then double-click "Network adapters".



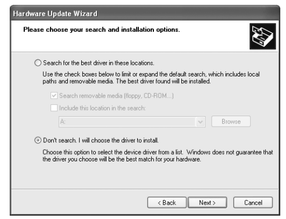
4. Double-click "ADMtek AN985 10/100Mbps Fast Ethernet Adapter".

5. Click "Driver" and click "Update Driver" tab, then click "OK".

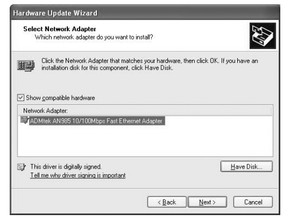
6. A Hardware Update Wizard will appear. Insert the GearBox™ for Adapters CD into your CD-ROM drive. Select "Install from a list or specific location (Advanced)". Click "Next".

Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
ADMtek AN985 10/100Mbps Fast Ethernet Adapter
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

7. When the following dialog box opens, select "Don't search. I will choose the driver to install." then click "Next".

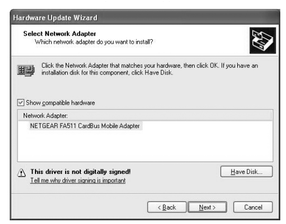

Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
A:
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

8. When Select Network Adapter box opens, click "Have Disk" then click "Next".


Hardware Update Wizard
Select Network Adapter
Which network adapter do you want to install?
Click the Network Adapter that matches your hardware, then click OK. If you have an installation disk for this component, click Have Disk.
Show compatible hardware
Network Adapter:
ADMtek AN985 10/100Mbps Fast Ethernet Adapter
This driver is digitally signed.
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

9. The Install From Disk box will open. Type "D:\" and click "OK".

10. "NETGEAR FA511 CardBus Mobile Adapter" will appear in the model list. Click "Next".


Hardware Update Wizard
Select Network Adapter
Which network adapter do you want to install?
Click the Network Adapter that matches your hardware, then click OK. If you have an installation disk for this component, click Have Disk.
Show compatible hardware
Network Adapter:
NETGEAR FA511 CardBus Mobile Adapter
This driver is not digitally signed!
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

11. The next Windows appears with the following adapter name : NETGEAR FA511 CardBus Mobile Adapter. Click "Finish".

12. Remove the GearBox™ for Adapters CD from the CD-ROM drive.

The Model FA511 CardBus Adapter driver installation for Windows XP is now complete.

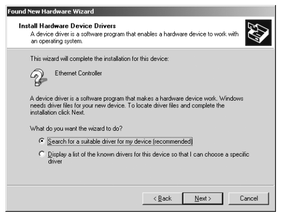
Install the Windows 2000 Network Driver

Note: If the "Insert Disk" window opens and a message prompts you to insert your Windows CD-ROM at any time during the installation process, insert the Windows CD-ROM in Drive D (the CD-ROM drive) and click on "OK". Then follow the next step in the instructions.

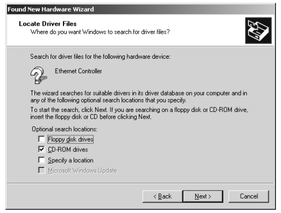
1. A Found New Hardware Wizard dialog box will appear, indicating that Windows 2000 has found the adapter. Insert the GearBox™ for Adapters CD into your CD-ROM drive.
2. Click "Next".

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel

3. The install hardware device drivers dialog box will appear. Select "Search for a suitable driver for your device (Recommended)". Click "Next".


Found New Hardware Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
Ethernet Controller
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

4. The Locate Driver Files dialog box will appear. Select "CD-ROM drives". Click "Next".


Found New Hardware Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Ethernet Controller
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

5. The Driver File Search Results dialog box will appear. Click "Next".

Found New Hardware Wizard
Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.
Ethernet Controller
Windows found a driver for this device. To install the driver Windows found, click Next.
d:\netfa511.inf
The wizard also found other drivers that are suitable for this device. To view a list of these drivers or install one of these drivers, select the following check box, and then click Next.
Install one of the other drivers
< Back
Next >
Cancel

6. Digital Signature Not Found dialog box may appear. Click "Yes".
7. The completing the Found New Hardware Wizard dialog box appears with the following adapter name : Netgear FA511 CardBus Mobile Adapter. Click "Finish".

Found New Hardware Wizard
Completing the Found New Hardware Wizard
NETGEAR FA511 CardBus Mobile Adapter
Windows has finished installing the software for this device.
To close this wizard, click Finish.
< Back
Finish
Cancel

8. Remove the GearBox™ for Adapters CD from the CD-ROM drive.

The Model FA511 CardBus Adapter driver installation for Windows 2000 is now complete.

Install the Windows Me Network Driver

Note: If the "Insert Disk" window opens and a message prompts you to insert your Windows CD-ROM at any time during the installation process, insert the Windows CD-ROM in Drive D (the CD-ROM drive) and click on "OK". Then follow the next step in the instructions.

1. Windows Me will automatically detect the new FA511 CardBus Adapter hawdware. Insert the GearBox™ for Adapters CD into your CD-ROM drive.
2. When the following dialog box opens, select "Automatic search for a better driver (Recommended)". Click "Next".

Add New Hardware Wizard
Windows has found the following new hardware:
PCI Ethernet Controller
Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.
What would you like to do?
Automatic search for a better driver (Recommended)
Specify the location of the driver (Advanced)
< Back
Next >
Cancel

3. The driver is copied onto your system. The next Windows appears with the following adapter name: NETGEAR FA511 CardBus Mobile Adapter. Click "Finish".

4. Once the driver is installed, Windows Me will ask if you want to restart your PC. Remove the GearBox™ for Adapters CD from the CD-ROM drive and click "Yes" to reboot.

The Model FA511 CardBus Adapter driver installation for Windows Me is now complete.

Install the Windows 98 Network Driver

Note: If the "Insert Disk" window opens and a message prompts you to insert your Windows CD-ROM at any time during the installation process, insert the Windows CD-ROM in Drive D (the CD-ROM drive) and click on "OK". Then follow the next step in the instructions.

1. Windows 98 will automatically detect the new FA511 CardBus Adapter hardware. Insert the GearBox™ for Adapters CD into your CD-ROM drive".

   Click "Next".

Add New Hardware Wizard
This wizard searches for new drivers for:
PCI Ethernet Controller
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

2. Select "Search for the best driver for your device (Recommended)" and then click "Next".

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

3. When the next dialog box opens, check the "CD-ROM drive", then click "Next".

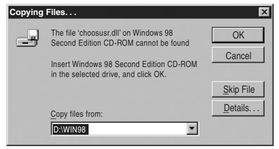
Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
Browse...
< Back
Next >
Cancel

4. Click "Next" to continue.

Add New Hardware Wizard
Windows driver file search for the device:
NETGEAR FA511 CardBus Mobile Adapter
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
D:\NETFA511.INF
< Back
Next >
Cancel

5. Insert the Windows 98 CD-ROM and click "OK".

6. Make sure drive D (or the appropriate CD-ROM drive letter) and Win98 appear in the "Copy files from:" prompt line (example, D:\WIN98), and then click "OK".


Copying Files...
The file 'choosusr.dll' on Windows 98 Second Edition CD-ROM cannot be found
Insert Windows 98 Second Edition CD-ROM in the selected drive, and click OK.
Copy files from:
D:\WIN98
OK
Cancel
Skip File
Details...

7. Click "Finish".

Add New Hardware Wizard
NETGEAR FA511 CardBus Mobile Adapter
Windows has finished installing the software that your new hardware device requires.
< Back
Finish
Cancel

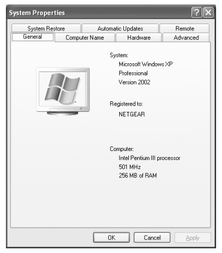
8. Remove the Windows 98 CD-ROM from the CD-ROM drive, and then click "Yes" to reboot.

The Model FA511 CardBus Adapter driver installation for Windows 98 is now complete.

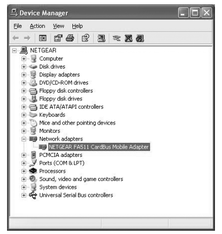
4 TEST YOUR NETWORK CONNECTION

To verify your installation:

1. Double-click "My Computer" on the desktop, double-click "Control Panel" and then double-click "System".



2. Click "Hardware" and click "Device Manager" tab, and then double-click "Network adapters".



3. Double-click "NETGEAR FA511 CardBus Notebook Adapter". A message will appear describing the status of the device.

If there is a problem with the installation of the driver, an exclamation point will appear next to the "NETGEAR FA511 CardBus Mobile Adapter". Try rebooting your computer. If the problem persists, call 1-888-NETGEAR for free technical support.

5 ENJOY BEING CONNECTED!

With NETGEAR PC cards, your notebook PC becomes compatible with 10 Mbps Ethernet and your migration to 100 Mbps is built in with 10/100 dual-speed technology. Now you're ready to share files and peripherals at either 10 Mbps or 100 Mbps. And help is there when you need it! NETGEAR provides free, 24x7 technical support in English, with selected local language support during office hours.

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Statement of Conditions

In the interest of improving internal design, operational function, and/or reliability, NETGEAR reserves the right to make changes to the products described in this document without notice.

NETGEAR does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein.

Certificate of the Manufacturer/Importer

It is hereby certified that the Model FA511 CardBus Notebook Adapter has been suppressed in accordance with the conditions set out in the BMPT-AmtsblVfg 243/1991 and Vfg 46/1992. The operation of some equipment (for example, test transmitters) in accordance with the regulations may, however, be subject to certain restrictions. Please refer to the notes in the operating instructions.

Federal Office for Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted the right to test the series for compliance with the regulations.

VCCI Statement

This equipment is in the Class B category (information equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by Data Processing Equipment and Electronic Office Machines aimed at preventing radio interference in such residential areas.

When used near a radio or TV receiver, it may become the cause of radio interference.

Read instructions for correct handling.

Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: (1) Reorient or relocate the receiving antenna, (2) Increase the separation between the equipment and receiver, (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected, (4) Consult the dealer or an experienced radio/TV technician for help.

Declaration of Conformity
NETGEAR Model FA511 CardBus Notebook Adapter
Tested to comply with FCC Standards
FOR HOME OR OFFICE USE

EN 55 022 Statement

This is to certify that the Model FA511 CardBus Notebook Adapter is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN 55 022 Class B (CISPR 22).

Compliance is dependent upon the use of shielded data cables.

Canadian Department of Communications Radio Interference Regulations

This digital apparatus (Model FA511 CardBus Notebook Adapter) does not exceed the Class B limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Règlement sur le brouillage radioélectrique du ministère des Communications

Cet appareil numérique (Model FA511 CardBus Notebook Adapter) respecte les limites de bruits radioélectriques visant les appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.